



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

Brace et al.

Serial No.: 10/645,365

Filed: August 21, 2003

Confirmation No.: 7430

Atty. File No.: 41992-00627

For: " IDENTIFICATION AND
TRACKING OF MOVING OBJECTS IN
DETECTED SYNTHETIC APERTURE
IMAGERY"

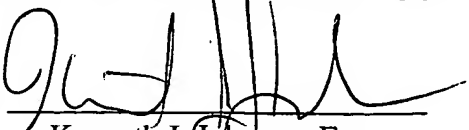
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to Applicant's duty of disclosure under 37 CFR § 1.56 and 37 CFR §§ 1.97-1.98, Applicant hereby provides a copy of each of the documents identified on the enclosed PTO Form 1449, although Applicant does not admit that any of such documents, alone or in any combination, is considered to be material to patentability as defined in 37 CFR § 1.56(b). Moreover, the inclusion of these documents is not to be construed as an admission by Applicant that each such document is prior art as to the above-identified application.

Respectfully submitted,


MARSH FISCHMANN & BREYFOGLE LLP

By: 

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Date: January 30, 2004

) Group Art Unit: 3662
)
) Examiner: Not Yet Assigned
)
) INFORMATION DISCLOSURE STATEMENT
)

<p style="text-align: center;">CERTIFICATE OF MAILING</p> <p>I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON <u>JANUARY 30, 2004</u>.</p> <p style="text-align: center;">MARSH FISCHMANN & BREYFOGLE LLP</p> <p>BY:  DAXMARA SANCHEZ</p>

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

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APPLICANT(S)

Brace et al.

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GROUP

Not Yet Assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1.	3,614,778	10/19/71	GRAHAM ET AL.	343	5	
	2.	3,735,400	05/22/73	SLETTEN ET AL.	343	7.7	
	3.	3,787,840	01/22/74	DOTSON	343	7.7	
	4.	3,787,849	01/22/74	SLETTEN ET AL.	343	7.7	
	5.	3,975,734	08/17/76	PAYNE	343	7.7	
	6.	4,052,889	10/11/77	MUCCIARDI ET AL.	73	67.8	
	7.	4,053,885	10/11/77	TOMITA ET AL.	343	7.7	
	8.	4,086,590	04/25/78	GOGGINS, JR.	343	5	
	9.	4,164,788	08/14/79	JAIN	364	515	
	10.	4,217,583	08/12/80	HILLER ET AL.	343	7.7	
	11.	4,241,350	12/23/80	UFFELMAN	343	5	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	A.	Rafael C. Gonzalez & Paul Wintz, "DIGITAL IMAGE PROCESSING", 1997, 5 Pages (Pgs. 16-19)
	B.	Chapter 7 Image Processing Basics, 7.3 Visual Phenomena, 4 Pages (Pgs 429-432).

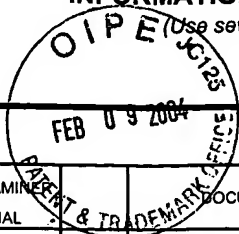
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	12. 4,559,537	12/17/85	PERASON, JR. ET AL.	343	7	
	13. 4,608,566	08/26/86	ENNIS ET AL.	343	5	
	14. 4,655,228	04/07/87	SHIMURA ET AL.	128	660	
	15. 4,675,677	06/23/87	VON MAYDELL ET AL.	342	25	
	16. 4,761,545	08/02/88	MARSHALL ET AL.	250	291	
	17. 4,829,306	05/09/89	GJESSING ET AL.	342	159	
	18. 4,858,124	08/15/89	LIZZI ET AL.	364	413	
	19. 4,864,307	09/05/89	POTAGE ET AL.	342	192	
	20. 4,992,797	02/12/91	GJESSING ET AL.	342	192	
	21. 5,047,968	09/10/91	CARRINGTON ET AL.	364	574	
	22. 5,068,664	11/26/91	APPRIOU ET AL.	342	90	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C.	Bruce P. Boger et al., "THE QUEFRENCY ALANYSIS OF TIME SERIES FOR ECHOES: CEPSTRUM Pseudo-AUTOCOVARIANCE, CROSS-CEPSTRUM AND SAPHE CRACKING" Brown University, June 11-14, 1962, Pgs. 209-243
D.	Alan V. Oppenheim et al., "THE IMPORTANCE OF PHASE IN SIGNALS", 1981, Pgs. 529-541.

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	23.	5,068,666	11/26/91	VOLES	342	192
	24.	5,072,314	12/10/91	CHANG	359	559
	25.	5,122,803	06/19/92	STANN ET AL.	342	25
	26.	5,159,474	10/27/92	FRANKE ET AL.	359	29
	27.	5,339,080	08/16/94	STEINWAY ET AL.	342	22
	28.	5,345,242	09/06/94	ROBERTS ET AL.	342	159
	29.	5,446,461	08/29/95	FRAZIER	342	22
	30.	5,451,961	09/19/95	RUBIN ET AL.	342	159
	31.	5,469,176	11/21/95	SANDLER ET AL.	342	375
	32.	5,502,444	03/26/96	KOHLBERG	342	22
	33.	5,539,412	07/23/96	MENDELSON	342	192

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

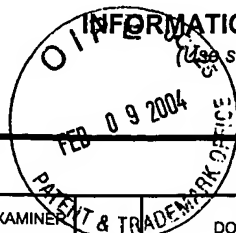
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	E.	Liberty Instruments, Inc., "REFLECTING ON ECHOES AND THE CEPSTRUM: A LOOK AT QUEFRENCY ANALYSIS AND HEARING", 01/24/00, 11 Pages (1-10 and 1 of 1)
	F.	Azriel Rosenfeld et al., "DIGITAL PICTURE PROCESSING" Second Edition Vol. 1, 1982, 7 Pages (Pgs. 126-131)

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	34.	5,546,084	08/13/96	HINDMAN	342	25	
	35.	5,561,431	10/01/96	PEELE ET AL.	342	90	
	36.	5,563,601	10/08/96	CATALDO	342	25	
	37.	5,563,604	10/08/96	BRANDAO ET AL.	342	159	
	38.	5,594,450	01/14/97	SCHOBER	342	159	
	39.	5,612,700	03/18/97	TUCKER	342	90	
	40.	5,614,907	03/25/97	KREITMAIR-STECK ETAL.	342	25	
	41.	5,659,318	08/19/97	MADSEN ET AL.	342	25	
	42.	5,675,468	10/07/97	CHANG	361	119	
	43.	5,675,663	10/07/97	KOERNER ET AL.	382	181	
	44.	5,721,694	02/24/98	GRAUPE	364	574	

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							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		G.	William H. Press et al., "NUMERICAL RECIPES IN FORTRAN", The Art of scientific Computing Second Edition, Cambridge University, Pgs. 584-599
		H.	Carrara, Walter G., "SPOTLIGHT SYNTHETIC APPERTURE RADAR", Artech House, Inc. 1995, Pgs. 237-243

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	45. 5,729,465	03/17/98	BARBARESCO	364	485	
	46. 5,780,775	07/14/98	YU	174	135	
	47. 5,790,702	08/14/98	YOSHIMURA	382	209	
	48. 5,848,193	12/08/98	GARCIA	382	232	
	49. 5,867,118	02/02/99	MCCOY ET AL.	342	90	
	50. 5,909,190	06/01/99	LO ET AL.	342	159	
	51. 5,910,785	06/08/99	NORMANT	342	25	
	52. 5,936,552	08/10/99	WICHGERS ET AL.	340	963	
	53. 5,959,566	09/28/99	PETTY	342	25	
	54. 5,960,097	09/28/99	PFEIFFER ET AL.	382	103	
	55. 6,011,625	01/04/00	GLASS	356	357	

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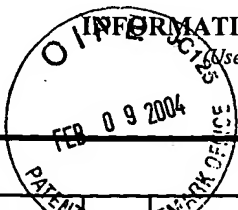
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

I.	4.2 INVERSE IMAGE FILTERING, Author Unknown (XP-002154117)
J.	Bruce Chapman, "SAR INTERFEROMETRY AND SURFACE CHANGE DETECTION", II. Basic Principles of SAR Interferometry, 04/29/03, Pgs. 1-9

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INFORMATION DISCLOSURE CITATION

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Docket Number (Optional)

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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	56.	6,038,337	03/14/00	LAWRENCE ET AL.	382	156	
	57.	6,046,695	04/04/00	POEHLER ET AL.	342	25	
	58.	6,070,461	06/06/00	GJESSING ET AL.	73	170.15	
	59.	6,150,972	11/21/00	BICKEL ET AL.	342	25	
	60.	6,173,066	01/09/01	PEURACH ET AL.	382	103	
	61.	6,252,754	06/26/01	CHAUDHRY	361	111	
	62.	6,288,776	09/11/01	CAHILL ET AL.	356	5.1	
	63.	6,333,986	12/25/01	PETTY	382	103	
	64.	6,337,654	01/08/02	RICHARDSON ET AL.	342	90	
	65.	6,347,264	02/12/02	NICOSIA T AL.	701	16	
	66.	6,377,206	04/23/02	PETTY	342	159	

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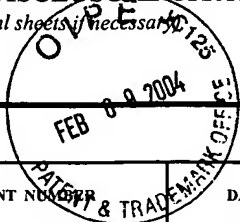
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INFORMATION DISCLOSURE CITATION (1)

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	67.	6,384,766	05/07/02	ULANDER	342	25	
	68.	6,441,376	08/27/02	GLASS ET AL.	250	342	
	69.	6,492,932	12/10/02	JIN ET AL.	342	25	

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